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8 February 1954

MEMORANDUM FOR: THE RECORD

SUBJECT:

Project Monitor on P-115,

Transistorized Receivers and Transmitters and

P-101, Communication System, Infra-Red.

1. Time and Place of Meeting - The meeting was held 28 January 1954 at the

2. Attendance -

3. Discussion

a. General Administrative

The question of security clearances was discussed. stated that the reason for their lack of progress was lack of cleared personnel. At present the majority of those cleared are administrative personnel. The APD representatives strongly emphasized the need to maintain an adequate staff of cleared technical personnel, taking into account the 3-5 month clearance delay and the possibility that personnel may resign from the company during the course of the project. We advised that it was well to clear all the people required on a project at the outset rather than to wait until 3 months before they are to be used. Special emphasis was placed on the P-115 work which is just starting, and security delays should be avoided if at all possible. A review was made by of personnel to be needed on P-115 and they stated that the respective PSQ's would be mailed as soon as possible.

The question of vouchers for money spent on the contract to date was brought up. Total expenditures to date are less than \$10,000 and no vouchers have been filed. It was requested that file a voucher as soon as possible.

The matter of reports was mentioned. Reports on both P-101 and P-115 were requested monthly. Three copies of each should be mailed to the to avoid delays in transit through IO, Contracts Branch.

COMEDENTIAL

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vis these cha	number were together with instructions for their use. that we could be reached quickly and directly nnels and that their use for technical commun- recommended rather than use of the Contract ls.	25X1 25X1	
As a mat is now employ been succeede		25X1 25X1	
b. P-10	1 (76-1) Communications System, I.R.		
The foll	owing definite progress has been made:		
(1)	The I.R. dark tunnel is near completion.		
determin	Apparatus is in process of construction to the minimum beamwidth for reliable search-ration of the transceiver.		
The foll	owing problems have not been resolved:		
	The combination of source, modulation, and to be used.		
	The means of obtaining approximately 50 power in a small, quiet, light package.		
	scussion with Chief of the I.R.	25 X 1	
Laboratory, a project, it	vas determined that is apparently	25X1 25X1 25X1	
	force behind the work being done. are assistants.) was	25 X 1	
unfortunately	y absent. were able idea of what is planned to be done. The deter-	25X1	
mination of minimum beamwidth is at present the step limit-			
ing further in it appears the favored. how	work on choice of source and detector combination. hat the tungsten source - PbS detector system is	25 X 1	
The power source problem is very much up in the air. Since gave their \$90,000 bid on development of a silenced motor generator, the use of a standard model air-			
hoped that Another poss	plus generator has been considered. It was could effictively silence such a combination. ible solution mentioned was the use of a steam Still another solution is the use of Silvercells.	25X1	

The opinion of the undersigned is that is at a loss

bid.

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regarding power sources since the

The lack of technical personnel on P-101 appears to have some ramifications. Both only about one year or less experience. appears to have more, but his ability is unknown. is fairly obviously not doing any technical work on the project. It was brought out in the discussion on security that three men from the I.R. Lab, cleared at the start of the project in June 1953, had been hired away from by such places as M.I.T. and the University of Chicago; fairly obviously they must have been men of some experience and ability. In conclusion then, the work done so far or the lack of it, is due to the fact that only has been making a major contribution. Not only that, but there is some doubt about the ability remaining in the I.R. Laboratory for us to draw on due to the loss of the three men.

c. P-115 (76-3) Transistorized Receivers and Transmitters

The end product of main interest in this project was described to ______, both of whom appear to be very capable. A summary of the points brought out follows:

- (1) The primary need is for a reliable transmitter-receiver of 1000 yards minimum range in city areas. This transmitter-receiver should be capable of being concealed on the person.
- (2) Finishing details such as package shape, type of earphone, microphone, concealment, etc. should be postponed until a reliable system has been built in the laboratory.
- (3) Frequency to be used should be determined to optimize possibilities to achieve (1) above. Much used frequencies such as the broadcast band should be avoided.
- (4) Operating life specifications are to be left open until a compromise can sensibly be made between size of equipment and operating life.
- (5) Gain required in audic amplifier should be determined after fundamental transmitter circuit has been evolved. This would allow possible adaptation for audic surveillance as well as communications use.

It was requested that the first report contain a description of the objective of the project as understood by together with a detailed program for the month following the data of the report.

agreed to have the first report by I March.

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of motor	APD will contact generators at to discover the cause of a	of Commo on the subject	
situation	APD will closely follow the at in order to ex	xpedite clearances. In	
o.k	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)		
The has been APD.		se clearance was refused, hould be followed up by	
c. for work	will submit all PS on P-101 and P-115.	GQ's for persons needed	
d. on P-115	will submit monthland P-101.	ly reports in triplicate	
e. past expe	will file vouchers	with Logistics covering	
Attachment:		TSS/APD	
Oistribution: Origional - P-101 - 1 Chrono 1 AST:ata	P-115		

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SUBJECT ±		on P-115.	· 25X
	Transistorized Receivers and Communication System, Infra-	Transmitters and P-101	
	Additional Comments by		25X
date of 29 less than for at less	It is now obvious that R. Communication System before 9 June 1954. With \$310,000 in \$10,000 to date. We can the ast a six months extension. In the length of time it takes to	e the present termination n the task they have spent refore anticipate a request Their excuse for the delay	25X
fact that the project gram for I of the num There was	has demonstrated exect. They have never planned a P-101 nor are they apparently uber of hours put in by project some talk about work done for	d not lose sight of the tremely poor management of a comprehensive work pro- keeping an accurate count of engineers and technicians.	25X
insist tha	if we are to get anything out we will have to monitor their at they live up to the letter to submission of reports.	of the two tasks at contract continuously and of the contract particularly	25 X 1
overstress out that t	The need for frequent visits to sed. In explaining though they received their confisited them until October.	g their slow start pointed	25X 25X
group head	s regards P-115 it is too ear The work on this project wi ed up by me much more than anyone in t	ll be done by a different These two men	25 X

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